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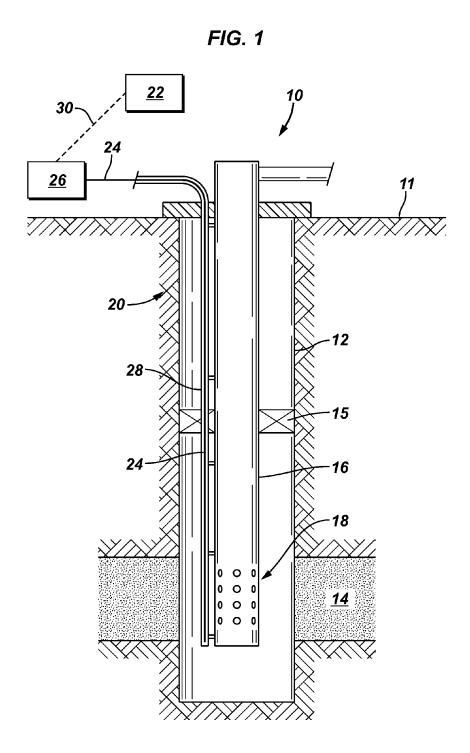
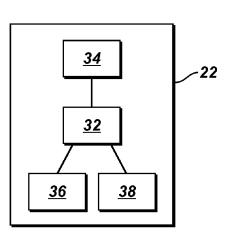
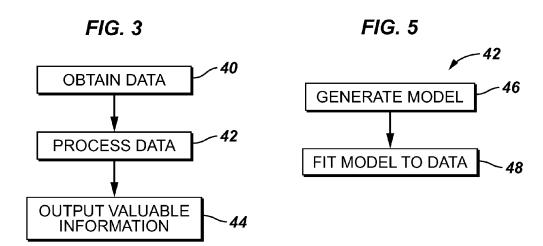
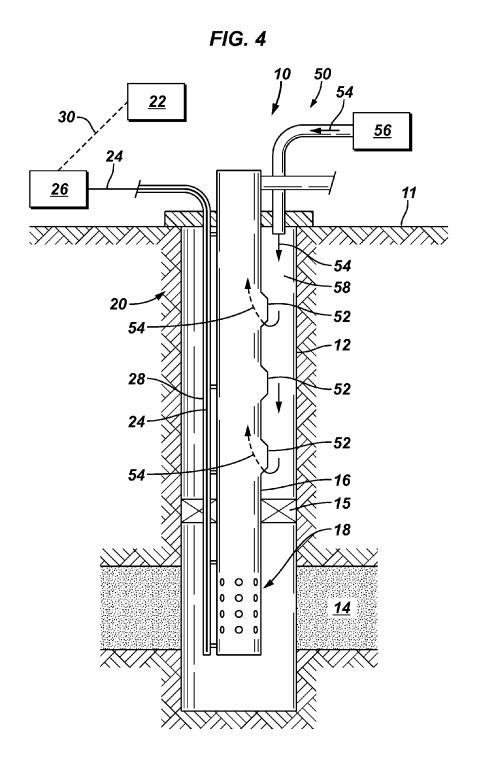


FIG. 2

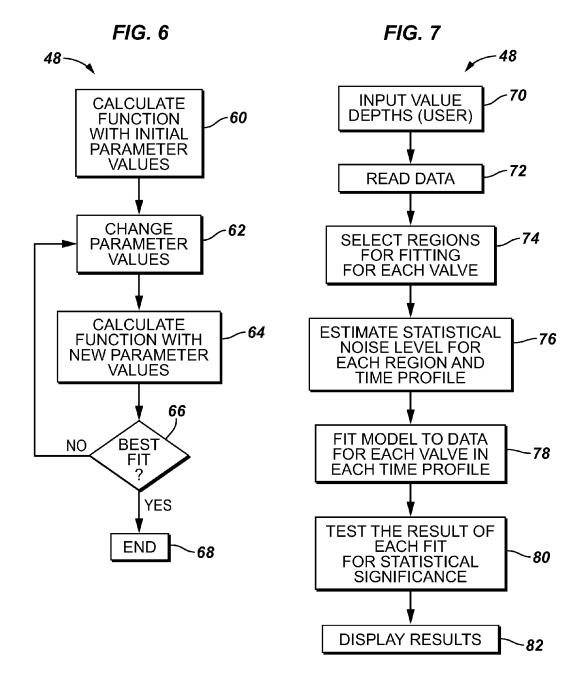


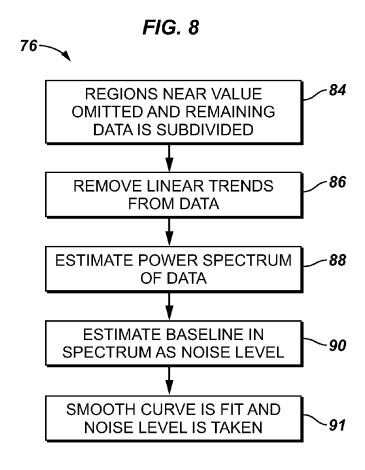


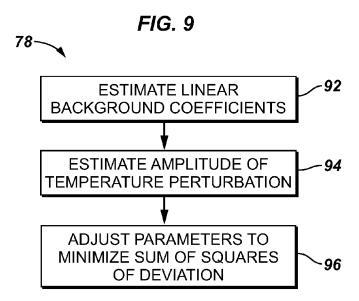
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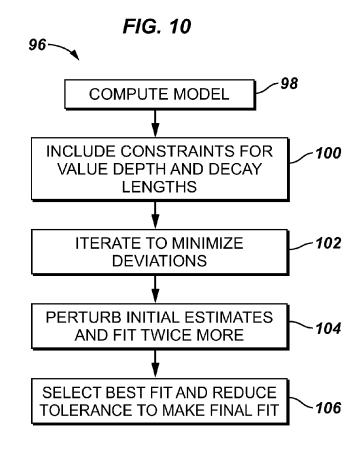


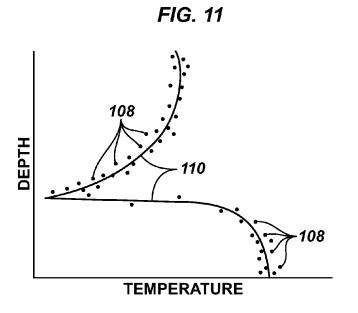
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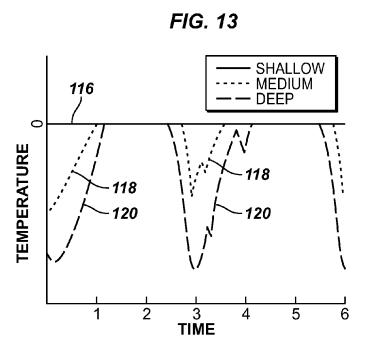




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FIG. 12

TEMPERATURE



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FIG. 14

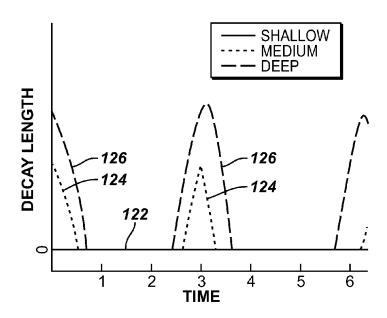
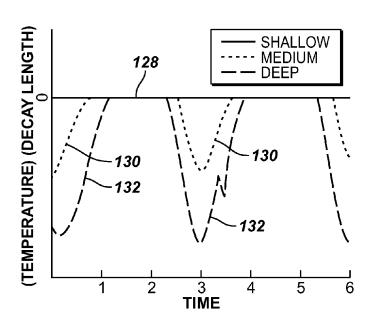
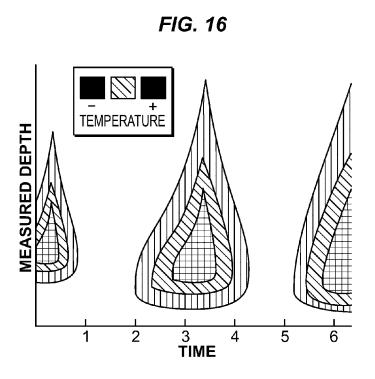


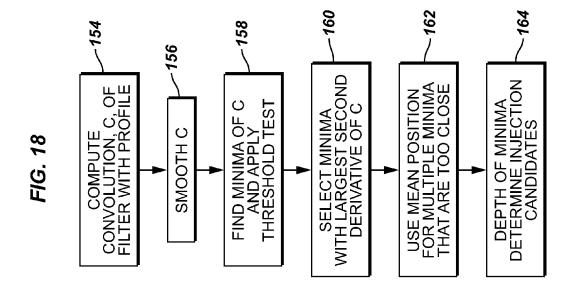
FIG. 15

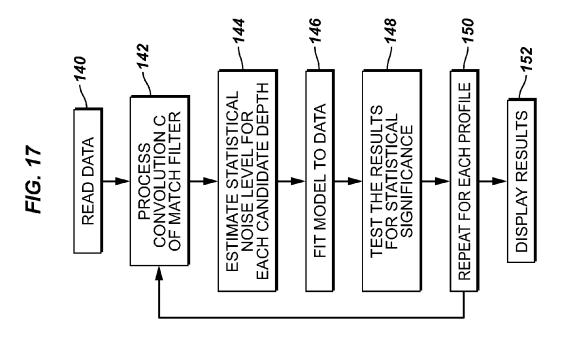


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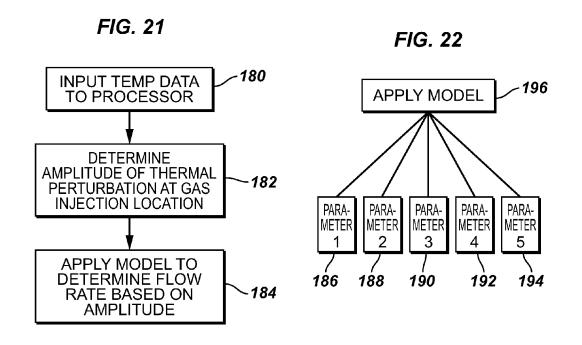
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FIG. 19 FIG. 20 _174 INPUT TEMP DATA PROVIDE WELL MODEL -166 TO PROCESSOR RELATING TEMP **CHARACTERISTICS** TO FLOW RATE **DETERMINE DECAY** LENGTH OF THERMAL -176 168 MEASURE TEMPS PERTURBATION AT ALONG WELL **GAS INJECTION LOCATION APPLY WELL MODEL** 170 TO MEASURED TEMPS APPLY MODEL TO **DETERMINE FLOW** -178 RATE BASED ON **DECAY LENGTH DETERMINE FLOW** 172 **RATE**



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